

WHAT IS CLAIMED IS:

1. A pneumatic cylinder of pneumatic tool capable of avoiding failure of bearings, said pneumatic cylinder comprising:

a cylinder body having an internal cylindrical chamber, a wall of the cylinder body being formed with an inlet and a predetermined number of outlets communicating with the cylindrical chamber;

two end caps each having a through hole, one face of each end cap being formed with a cavity, the cavity coaxially communicating with the through hole, the two end caps respectively covering two ends of the cylinder body;

a rotor;

a rotary shaft fixedly connected with the rotor, two ends of the rotary shaft protruding from top and bottom ends of the rotor, the rotor being rotatably mounted in the cylindrical chamber, two ends of the rotary shaft respectively extending out of the cylinder body through the through holes of the two end caps; and

two bearings respectively installed in the cavities of the two end caps and fitted on two ends of the rotary shaft, said pneumatic cylinder being characterized in that the pneumatic

cylinder further comprising two airtight rings each formed with a central through hole, the two airtight rings being respectively disposed in the cavities and located between the bottom walls of the cavities and the end faces of the bearings to achieve an airtight effect between the bottom walls of the cavities and the bearings, two ends of the rotary shaft extending through the through holes of the airtight rings.

2. The pneumatic cylinder as claimed in claim 1, wherein the airtight rings are annular plates.
3. The pneumatic cylinder as claimed in claim 2, wherein the bottom wall of each cavity is recessed to form a dent in which the airtight ring is disposed.
4. The pneumatic cylinder as claimed in claim 1, wherein the circumferences of the through holes of the airtight rings are airtight engaged with the circumference of the rotary shaft.
5. The pneumatic cylinder as claimed in claim 2, wherein the circumferences of the through holes of the airtight rings are airtight engaged with the circumference of the rotary shaft.
6. The pneumatic cylinder as claimed in claim 3, wherein the circumferences of the through holes of the airtight rings are airtight engaged with the circumference of the rotary shaft.